Author Index of Volume 57

Abuin, E. B., 343
Andraos, J., 165
Andrew, D., 97
Aubry, C., 465
Avnir, D., 41
Azarani, A., 175

Becalska, A., 457
Berinstain, A. B., 175
Buchardt, O., 331
Bunce, N. J., 429
Bunce, R. A., 317

Casal, H. L., 343
Castel, N., 301
Chen, J., 21
Cheng, X., 247
Chow, Y. L., 247

Drouin, M., 465

Fischer, E., 235, 301
Fox, M. A., 27

Gan, L., 465
Ghatlia, N. D., 7
Giannotti, C., 453, 479
Görner, H., 235
Goswami, K., 65

Harvey, P. D., 465
Hatsui, T., 257
Heise, I., 127
Heitner, C., 111
Helluy, A., 373
Henriksen, U., 331
Hill, R. H., 457
Holt, E. M., 317

Ito, Y., 293

Johansson, C. I., 247
Johnston, L. J., 175
Jones, II, G., 65

Karbe, C., 231
Kazanis, S., 175
Kaziska, A. J., 383
Kelly, G. P., 111
Krasnansky, R., 81
Kresge, A. J., 165
Krüger, C., 127
Kruus, E. J., 419
Kunimoto, K., 293

Law, K.-Y., 217
Leblanc, R. M., 373
Leicester, P. A., 111
Leigh, W. J., 97
Leitich, J., 127
Levy, D., 41
Lissi, E., 343
Lüttke, W., 301

MacDonald, M. J., 441
Maciejewski, A., 405
Margaretha, P., 231
Matsuura, T., 293
Munger, G., 373
Muralidharan, S., 191
Muzyka, J. L., 27

Nakai, J. S., 429
Netto-Ferreira, J. C., 153
Niefer, B. I., 419
Nielsen, P. E., 331
Niemeyer, M., 301

Oda, M., 265
Oh, C., 65
Okada, K., 265
Okubo, K., 265
Oldroyd, D. L., 207

Palmer, B. J., 457
Paszyc, S., 279
Pokkuluri, P. R., 21

Roscoe, J. M., 441

Safarzadeh-Amiri, A., 361
Scaiano, J. C., 153
Schaffner, K., 127
Scheffer, J. R., 21
Schmidt, J. A., 111
Shchuka, M. I., 383
Skalski, B., 279
Sloan, J. J., 419
Steer, R. P., 405
Strauch, M., 301
Szymanski, M., 405

Takeshita, H., 257
Tarnawskyj, I. W., 217
Taylor, V. L., 317
Thomas, J. K., 81
Tone, M., 293
Topp, M. R., 383
Trottter, J., 21
Turro, N. J., 7

Wan, P., 191
Weedon, A. C., 207
Wenska, G., 279
Werner, S., 127
Wilkinson, F., 111
Winnik, M. A., 351
Wintgens, V., 153
Wittmeyer, S. A., 383
Workentin, M. S., 97

Xu, R., 351

Yawching, M., 429

Zakrzewski, J., 453, 479
Zelent, B., 373

Elsevier Sequoia/Printed in The Netherlands

Subject Index of Volume 57

Absorption
photophysical and photochemical properties of 4-(1,2,4-triazol-1-yl)-pyrimidin-2(1H)-ones, 279
Acetone
photolysis of acetone at 308 nm, 441
Alaferrocene
axial coordination of azaferrocene and dioxygen to cobalt(II) porphyrins. Photochemistry of six-coordinated adducts, 479
Alkane complexation
picosecond time resolution of the S_2 state of xanthione in 1:1 van der Waals complexes, 383
Aromatic donors
electron transfer reactions between excited diarylmethyl and trairylmethylcarbocations and aromatic donors, 175
Aromatic ketones
end-to-end intramolecular quenching of aromatic ketone triplets in aqueous solution of 2,6-di-(O-methyl)-cyclodextrins, 97
Aromatic thiones
concerning apparent intersystem crossing efficiencies in molecules with small S_1–T_1 energy gaps, 405
Atmospheric pollutants
estimates of the tropospheric lifetimes of short- and long-lived atmospheric pollutants, 429
Aza aromatic compounds
simple and convenient photodecarboxylation method on intact carboxylic acids in the presence of aza aromatic compounds, 265
Azo
azo pigments and their intermediates. On the anomalous optical absorption of bisazo pigments from 4,4′-diamino-1,1′-dianthrimide and 2-hydroxy-3-naphthanilides, 217

Biradicals
lifetimes of biradicals produced in the Norrish Type I reaction of methyl-substituted 2-tetralones, 153
Bleached pulp
diffuse-reflectance laser flash photolysis studies of the photochemistry of bleached thermomechanical pulp, 111

Carboxylic acids
simple and convenient photodecarboxylation method on intact carboxylic acids in the presence of aza aromatic compounds, 265
Chemiluminescence
dynamics of the reactions: $O(^1D_2) + H_2S \rightarrow OH(v') + HS$, 419
Chlorophyll *a*
fluorescence studies of Langmuir–Blodgett films of chlorophyll *a* mixed with phytol, 373
Cis-4,4-Diphenyl-2-cyclohepten-1-one
photochemistry of *cis*-4,4-diphenyl-2-cyclohepten-1-one, 317
Cobalt(II) porphyrins
axial coordination of azaferrocene and dioxygen to cobalt(II) porphyrins. Photochemistry of six-coordinated adducts, 479
Counter-ions
influence of counter-ion identity on the properties of dodecylsulphate micelles. A study by IR and fluorescence methods, 343
1-Cyclohexenyl phenylketone
photo-Nazarov cyclization of 1-cyclohexenyl phenyl ketone revisited. Observation of intermediates, 127

Decarbonylation
lifetimes of biradicals produced in the Norrish Type I reaction of methyl-substituted 2-tetralones, 153
Delayed fluorescence
room temperature phosphorescence and delayed fluorescence of organic molecules trapped in silica sol–gel glasses, 41

Elsevier Sequoia/Printed in The Netherlands

4,4′-Diamino-1,1′-dianthrimide
azo pigments and their intermediates. On the anomalous optical absorption of bisazo pigments from 4,4′-diamino-1,1′-dianthrimide and 2-hydroxy-3-naphthanilides, 217
1,2-Diarylethylene
photophysics and reversible photochemistry of 1,2-diarylethylenes containing perylenyl or biphenylenyl as an aryl group, 301
Diastereoselectivity
diastereoselective induction in radical coupling reactions: photolysis of 2,4-diphenylpentan-3-ones adsorbed on faujasite zeolites, 7
Dibenzoylmethanatoboron
molecular interactions of dibenzoylmethanatoboron difluoride ($DBMBF_2$) in the excited and ground states in solution, 247
Dibenzylideneacetone ligand
cis,trans-isomerization of the dibenzylideneacetone ligand: intramolecular quenching effected by ferrocenyl group substitutions and coordination with Pd(0) and Pt(0), 465
4-Dicyanomethylene-1,2,3,4-tetrahydromethylquinoline
the solvation dynamics of 4-dicyanomethylene-1,2,3,4-tetrahydromethylquinoline in alcohols, 361
2,4-Dimethyl-1,3-pentadiene
oxidative photocatalysis in the absence of oxygen: methyl viologen as an electron trap in the TiO_2-mediated photocatalysis of the Diels–Alder dimerization of 2,4-dimethyl-1, 3-pentadiene, 27
Dimethyl 9-chloromethyl-9,10-ethenoanthracene
novel solid state and solution phase photochemistry of dimethyl 9-chloromethyl-9,10-dihydro-9,10-ethenoanthracene-11,12-dicarboxylate, 21
2,4-Diphenylpentan-3-one
diastereoselective induction in radical coupling reactions: photolysis of 2,4-diphenylpentan-3-ones adsorbed on faujasite zeolites, 7
DNA
azidobenzoyl-, azidoacridinyl-, diazocyclopentadienyl- carbonyl- and 8-propyloxypsoralen photobiotinylation reagents. Syntheses and photoreactions with DNA and protein, 331
Dodecylsulphate micelles
influence of counter-ion identity on the properties of dodecylsulphate micelles. A study by IR and fluorescence methods, 343

E⇌Z photoisomerization
reversible photochemistry of 4-nitro-substituted diphenylazomethines, 235
Electron spin resonance
axial coordination of azaferrocene and dioxygen to cobalt(II) porphyrins. Photochemistry of six-coordinated adducts, 479
ESR studies of photogenerated nitrobenzyl carbanions in aqueous solution, 191
Electron transfer
electron transfer reactions between excited diarylmethyl and trairylmethylcarbocations and aromatic donors, 175
photochemistry of triarylmethane dyes bound to polyelectrolytes: photoinduced electron transfer involving bound dye monomers and dimers, 65
photoinduced electron transfer between nitroxide radicals and $W_{10}O_{32}^{4-}$, 453
Electron trap
oxidative photocatalysis in the absence of oxygen: methyl viologen as an electron trap in the TiO_2-mediated photocatalysis of the Diels–Alder dimerization of 2,4-dimethyl-1,3-pentadiene, 27

Faujasites
diastereoselective induction in radical coupling reactions: photolysis of 2,4-diphenylpentan-3-ones adsorbed on faujasite zeolites, 7
Flash photolysis
flash photolytic generation and study of ketenes: acid-catalysed hydration in aqueous solution, 165
Fluorescence
concentration dependence of the transient effects in monomer–excimer kinetics, 351

fluorescence studies of Langmuir–Blodgett films of chlorophyll *a* mixed with phytol, 373
influence of counter-ion identity on the properties of dodecylsulphate micelles. A study by IR and fluorescence methods, 343
molecular interactions of dibenzolymethanatoboron difluoride ($DBMBF_2$) in the excited and ground states in solution, 247
photophysical and photochemical properties of 4-(1,2,4-triazol-1-yl)-pyrimidin-2(1H)-ones, 279
solvation dynamics of 4-dicyanomethylene-1,2,3,4-tetrahydromethylquinoline in alcohols, 361
Fluorescence quenching
diffusional *vs.* non-diffusional fluorescence quenching at the silica gel liquid-solid and vacuum-solid interfaces: pyrene fluorescence quenching by oxygen, nitromethane and nitropropionic acid, 81

Hydration
flash photolytic generation and study of ketenes: acid-catalysed hydration in aqueous solution, 165
2-Hydroxy-3-naphthanilides
azo pigments and their intermediates. On the anomalous optical absorption of bisazo pigments from 4,4′-diamino-1,1′-dianthrimide and 2-hydroxy-3-naphthanilides, 217

I-Thiocoumarin
photocycloadditions to 1-thiocoumarin, 231
Intersystem crossing
concerning apparent intersystem crossing efficiencies in molecules with small S_1–T_1 energy gaps, 405
Intramolecular disproportionation
lifetimes of biradicals produced in the Norrish Type I reaction of methyl-substituted 2-tetralones, 153
Intramolecular quenching
end-to-end intramolecular quenching of aromatic ketone triplets in aqueous solution of 2,6-di-(O-methyl)-cyclodextrins, 97
Irradiation
azidobenzoyl-, azidoacridinyl-, diazocyclopentadienyl- carbonyl- and 8-propyloxypsoralen photobiotinylation reagents. Syntheses and photoreactions with DNA and protein, 331
influence of counter-ion identity on the properties of dodecylsulphate micelles. A study by IR and fluorescence methods, 343
photocycloadditions to 1-thiocoumarin, 231
photoinduced electron transfer between nitroxide radicals and $W_{10}O_{32}^{4-}$, 453
solvent- and wavelength-dependent photochemistry of *N*-benzoylindole and *N*-ethoxycarbonylindole, 207
Isomerization
cis,trans-isomerization of the dibenzylideneacetone ligand: intramolecular quenching effected by ferrocenyl group substitutions and coordination with Pd(0) and Pt(0), 465
reversible photochemistry of 4-nitro-substituted diphenylazomethines, 235

Ketenes
flash photolytic generation and study of ketenes: acid-catalysed hydration in aqueous solution, 165

Langmuir–Blodgett films
fluorescence studies of Langmuir–Blodgett films of chlorophyll *a* mixed with phytol, 373
Laser flash photolysis
diffuse-reflectance laser flash photolysis studies of the photochemistry of bleached thermomechanical pulp, 111
end-to-end intramolecular quenching of aromatic ketone triplets in aqueous solution of 2,6-di-(O-methyl)-cyclodextrins, 97

MB-sensitized photo-oxidation
methylene-blue-sensitized photoreaction of quadricyclane. Mechanism of oxidation, 257
Methanol
methylene-blue-sensitized photoreaction of quadricyclane. Mechanism of oxidation, 257
Methyl viologen
oxidative photocatalysis in the absence of oxygen: methyl viologen as an electron trap in the TiO_2-mediated photocatalysis of the Diels–Alder di-

merization of 2,4-dimethyl-1,3-pentadiene, 27
Methylcarbocations
electron transfer reactions between excited diarylmethyl and trairylmethylcarbocations and aromatic donors, 175
Monomer–excimer kinetics
concentration dependence of the transient effects in monomer–excimer kinetics, 351

N-benzoylindole
solvent- and wavelength-dependent photochemistry of *N*-benzoylindole and *N*-ethoxycarbonylindole, 207
N-ethoxycarbonylindole
solvent- and wavelength-dependent photochemistry of *N*-benzoylindole and *N*-ethoxycarbonylindole, 207
Nitrobenzyl carbanion
ESR studies of photogenerated nitrobenzyl carbanions in aqueous solution, 191
4-Nitro-substituted diphenylazomethines
reversible photochemistry of 4-nitro-substituted diphenylazomethines, 235
Nitroxide radicals
photoinduced electron transfer between nitroxide radicals and $W_{10}O_{32}^{4-}$, 453

Organic molecules
room temperature phosphorescence and delayed fluorescence of organic molecules trapped in silica sol–gel glasses, 41
Organometallic complexes
photochemical reactions of $[(\eta^5\text{-}C_5R_5)\text{-}Mn(CO)_2(NO)]^+$ ($R_5 \equiv H_5$, H_4Me, Me_5) as films and in low temperature glasses, 457

Photobiotinylation
azidobenzoyl-, azidoacridinyl-, diazocyclopentadienyl- carbonyl- and 8-propyloxypsoralen photobiotinylation reagents. Syntheses and photoreactions with DNA and protein, 331
Photocatalysis
oxidative photocatalysis in the absence of oxygen: methyl viologen as an electron trap in the TiO_2-mediated photocatalysis of the Diels–Alder dimerization of 2,4-dimethyl-1,3-pentadiene, 27
Photochemical transformation
photo-Nazarov cyclization of 1-cyclohexenyl phenyl ketone revisited. Observation of intermediates, 127
Photocycloadditions
photocycloadditions to 1-thiocoumarin, 231
Photodecarboxylation
simple and convenient photodecarboxylation method on intact carboxylic acids in the presence of aza aromatic compounds, 265
Photoisomerization
photophysics and reversible photochemistry of 1,2-diarylethylenes containing perylenyl or biphenylenyl as an aryl group, 301
Photolysis
estimates of the tropospheric lifetimes of short- and long-lived atmospheric pollutants, 429
photochemical reactions of $[(\eta^5\text{-}C_5R_5)\text{-}Mn(CO)_2(NO)]^+$ ($R_5 \equiv H_5$, H_4Me, Me_5) as films and in low temperature glasses, 457
photolysis of acetone at 308 nm, 441
ZnTPP-sensitized photoreaction of α-methylstyrene in the presence of Et_3N and CCl_4, 293
Photorearrangement
novel solid state and solution phase photochemistry of dimethyl 9-chloromethyl-9,10-dihydro-9,10-ethenoanthracene-11,12-dicarboxylate, 21
Photoreceptors
azo pigments and their intermediates. On the anomalous optical absorption of bisazo pigments from 4,4′-diamino-1,1′-dianthrimide and 2-hydroxy-3-naphthanilides, 217
Pigments
azo pigments and their intermediates. On the anomalous optical absorption of bisazo pigments from 4,4′-diamino-1,1′-dianthrimide and 2-hydroxy-3-naphthanilides, 217
Polyoxometallates
photoinduced electron transfer between nitroxide radicals and $W_{10}O_{32}^{4-}$, 453
Protein
azidobenzoyl-, azidoacridinyl-, diazocyclopentadienyl- carbonyl- and

8-propyloxypsoralen photobiotinylation reagents. Syntheses and photoreactions with DNA and protein, 331
Pyrene
concentration dependence of the transient effects in monomer–excimer kinetics, 351
diffusional *vs.* non-diffusional fluorescence quenching at the silica gel liquid–solid and vacuum–solid interfaces: pyrene fluorescence quenching by oxygen, nitromethane and nitropropionic acid, 81

Quadricyclane cation radical
methylene-blue-sensitized photoreaction of quadricyclane. Mechanism of oxidation, 257
Quantium yields
concerning apparent intersystem crossing efficiencies in molecules with small S_1–T_1 energy gaps, 405

Reaction dynamics
dynamics of the reactions: $O(^1D_2) + H_2S \rightarrow OH(v') + HS$, 419
Recyclization
lifetimes of biradicals produced in the Norrish Type I reaction of methyl-substituted 2-tetralones, 153
Room temperature phosphorescence
room temperature phosphorescence and delayed fluorescence of organic molecules trapped in silica sol–gel glasses, 41

Silica gel
diffusional *vs.* non-diffusional fluorescence quenching at the silica gel liquid–solid and vacuum–solid interfaces: pyrene fluorescence quenching by oxygen, nitromethane and nitropropionic acid, 81
Singlet excited state reactions
novel solid state and solution phase photochemistry of dimethyl 9-chloromethyl-9,10-dihydro-9,10-ethenoanthracene-11,12-dicarboxylate, 21
Solvation dynamics
solvation dynamics of 4-dicyanomethylene-1,2,3,4-tetrahydromethylquinoline in alcohols, 361
Substitution
cis,trans-isomerization of the dibenzylideneacetone ligand: intramolecular quenching effected by ferrocenyl group substitutions and coordination with Pd(0) and Pt(0), 465
Surface films
photochemical reactions of $[(\eta^5\text{-}C_5R_5)\text{-}Mn(CO)_2(NO)]^+$ ($R_5 \equiv H_5$, H_4Me, Me_5) as films and in low-temperature glasses, 457

Time-resolved fluorescence
picosecond time resolution of the S_2 state of xanthione in 1:1 van der Waals complexes, 383
Transient radicals
photochemistry of triarylmethane dyes bound to polyelectrolytes: photoinduced electron transfer involving bound dye monomers and dimers, 65
Triarylmethane dyes
photochemistry of triarylmethane dyes bound to polyelectrolytes: photoinduced electron transfer involving bound dye monomers and dimers, 65
4-(1,2,4-Triazol-1-yl)-pyrimin-2(1H)-ones
photophysical and photochemical properties of 4-(1,2,4-triazol-1-yl)-pyrimidin-2(1H)-ones, 279
Troposphere
estimates of the tropospheric lifetimes of short- and long-lived atmospheric pollutants, 429

Vibrational energy
dynamics of the reactions: $O(^1D_2) + H_2S \rightarrow OH(v') + HS$, 419

Xanthione
picosecond time resolution of the S_2 state of xanthione in 1:1 van der Waals complexes, 383

Zeolites
diastereoselective induction in radical coupling reactions: photolysis of 2,4-diphenylpentan-3-ones adsorbed on faujasite zeolites, 7